Installation and operating instructions

Local ventilation unit
with heat recovery

DL 60 WR

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Technical data

DL 60 WR ventilation unit

Device data

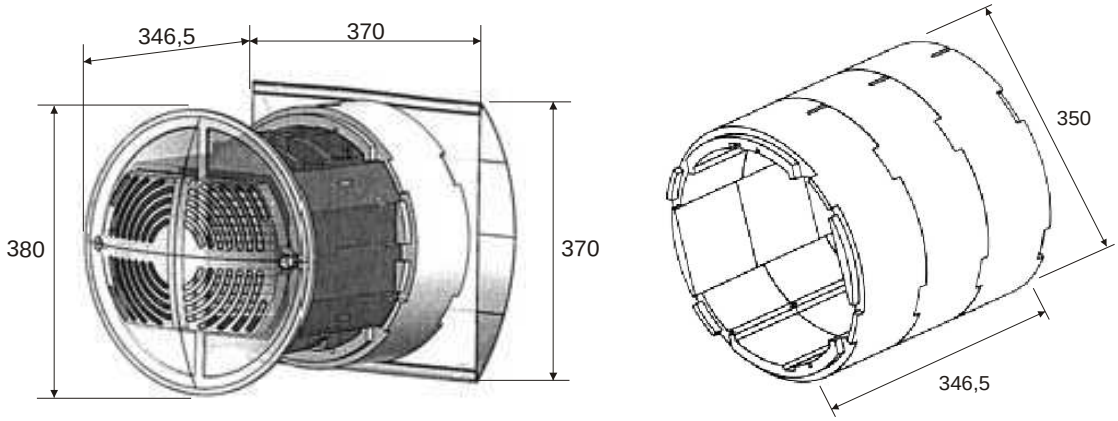
Rated voltage:	230V~ 50Hz
Nominal output:	10 Watts
Degree of protection:	IP X4 (splash-proof)
Protection class:	II (protective insulation)
Dimensions:	See dimension drawings
Weight (net):	6.7 kg

Set fan level	Remote control display	Delivery volume [m³ / h]	Nominal output [W]	Noise level [dB(A) 1m]	Exhaust air ventilator function	Fresh air ventilator function	Exhaust air flap function	Fresh air flap function	Heat supply rate %	Degree of heat recovery %
0	**0**	0	4.0	-	Off	Off	Closed	Closed	-	-
1	**1**	17	3.5	23.7	On	On	Open	Open	71.29	70.88
2	**2**	30	4.5	29.9	On	On	Open	Open	71.25	70.86
3	**3**	45	6.5	35.0	On	On	Open	Open	70.90	70.53
4	**4**	60	10.0	41.6	On	On	Open	Open	71.56	71.18
Fresh air	↳	30	4.25	27.5	Off	On	Closed	Open	-	-
Exhaust air	↱	30	4.25	27.5	On	Off	Open	Closed	-	-

The DL 60WR ventilation unit fulfils the requirements for noise protection class 3 (35-39dB).

This can be compared to the sound reduction index of a closed window, which corresponds to the current valid requirements for thermal insulation.

Dimension Drawings



Dimensions for ventilation unit and wall casing

Accessories

Remote control FDL 60 U, FDL 60 A – essential for operation

Remote control for controlling the ventilation unit, for either flush mounting or surface mounting.

Order reference	Article no.	Type of installation
FDL 60 U	356 350	Flush mounting
FDL 60 A	356 360	Surface mounting

Length of the control line included: 3.0 m.

Adjustment to wall thickness

Order reference	Article no.	Description	Necessary for:
ARDL 60	356 390	External frame	Wall thicknesses of less than 346 mm
VRDL 60*	356 420	Extension ring (111 mm)	Wall thicknesses of more than 346 mm

* to be installed on an exterior wall

Filter set

Order reference	Article no.	Description
EFDL 60 G4	356 370	Filter G4 (2 units)
EFDL 60 F7	356 380	Pollen filter F7 (1 unit)

Scope of supply

The DL 60 WR ventilation unit with heat recovery is composed of:

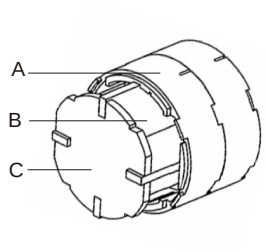
Body shell set – wall casing with protection plate and stainless steel exterior cover,
Final assembly set – ventilation unit with plastic interior wall cover.

Assembly instructions

Body shell set

Ring-shaped wall casing (A) for body shell mounting with a wall opening of 350 mm.

- Wall casing length 346 mm.
- For adjustment to the local wall thickness, an additional extension ring (accessory VRDL 60) measuring 111.5 mm can be installed and then shortened to the desired length.
  A maximum of 5 extension rings can be installed without impairing the functioning of the ventilation unit.
- If the wall thickness is less than 346 mm, a compensating frame (accessory ARDL 60) is installed - allowing for smooth adaption to the exterior wall.
- The wall casing is reinforced inside with a Styrofoam support (B) and equipped with a cover plate (C) inside and outside.
- Weatherproof stainless steel exterior cover with rust-free mounting screws.

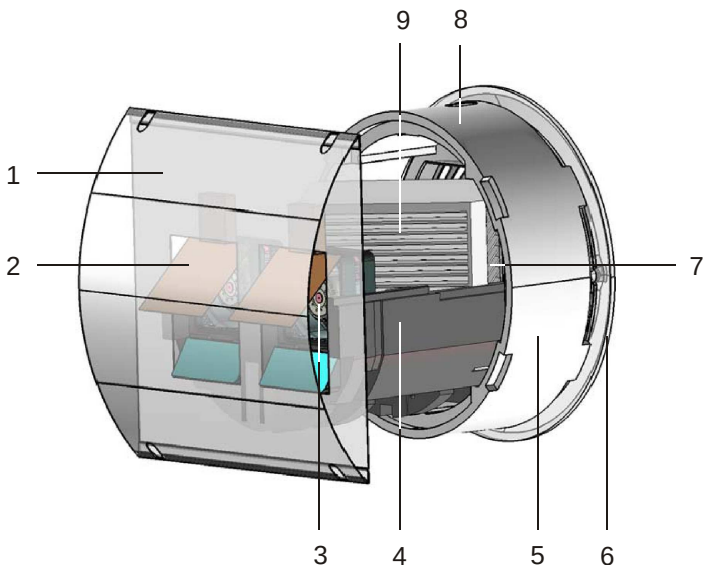


Wall casing for body shell mounting

Final assembly set

Ventilator insert with aluminium cross-flow heat exchanger composed of:

- two casing half-shells made of robust EPP foam,
- two 22V DC motors,
- two electrically-controlled stainless steel exterior vents with fly screen,
- a cross-current heat exchanger,
- two G4 filters for filtering fresh air and exhaust air,
- control PCB with plug connection for connection line for remote control,
- plastic interior cover in colour RAL 9016.



Assembly of DL 60 WR ventilation unit with heat recovery

1. Stainless steel exterior cover
2. Electrically-controlled exterior vent
3. 22V DC motor
4. EPP casing half-shell
5. EPP wall casing
6. Plastic interior cover
7. Fresh air and exhaust air filters
8. Switchbox with control PCB
9. Cross-current heat exchanger

Safety information

The DL 60 WR ventilation unit with heat recovery is intended for installation in an exterior wall for ventilating and de-aerating a room.

- Use is prohibited in rooms which have especially greasy, explosive or dusty air.
- Installation, connection and repairs must only be carried out by authorised specialist personnel!
- The unit must only be installed and operated in dry, enclosed rooms.
- The German Electrical Engineers' Association (VDE) stipulations and the regulations of the local utility company must be followed!

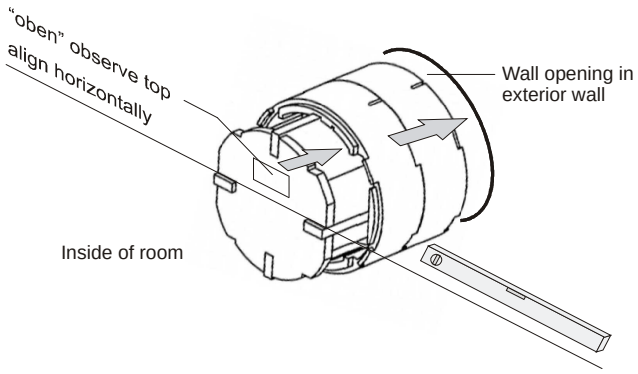
Installation

Selecting the installation location

Always mount the ventilation unit on an exterior wall.
It is recommended that the unit be mounted on a wall with windows and as high as possible.
Used, warm air is known to collect in the upper regions and can thus be effectively removed.
Make sure that it does not blow directly onto people. Do not install in the direct vicinity of beds in bedrooms or directly over seating in living rooms.
Do not block the supply and exhaust flow to and from the device e.g. with curtains or other objects. Do not install the device behind facades.
The ventilation unit may be installed in protective zone 2 for splash-protected devices!
Do not install the ventilation unit in explosion-protected areas.
The ambient temperature should not be outside the temperature range of -12℃ to +40℃.
When installing, make sure that there is easy access for maintenance e.g. for changing filters.

Installation of the wall casing

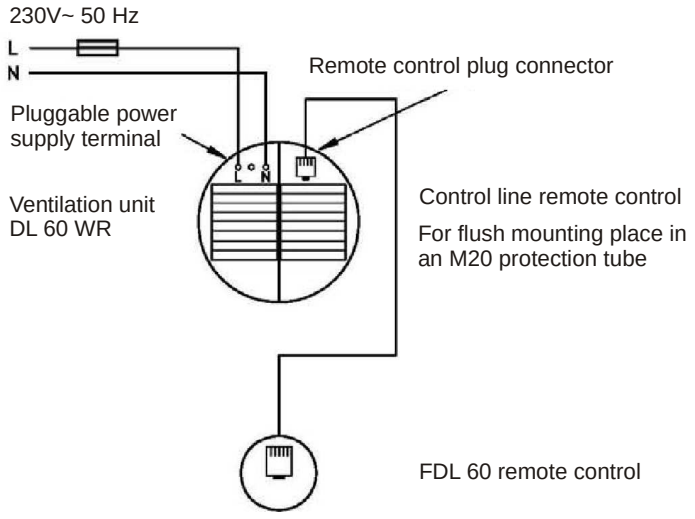
When installing the ventilation unit, observe the applicable safety and installation regulations.
The ventilation unit is designed for a wall thickness of 346 mm. For adjusting to a wall thickness deviating from the above, special accessory sets are available (see "Accessories").
A circular, horizontal wall opening 350 mm in diameter is necessary for installing the wall casing.
When installing the wall casing, heed the OBEN ("UP") label on the inner cover. Insert the wall casing in such a way that the ventilation unit can be inserted horizontally.
Remove the stabilisation beam only after the on-site work has been completed. A cover is placed on all the exterior sides to protect the wall casing from dust during plaster work.



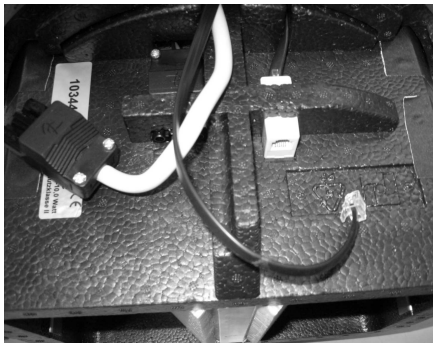
Horizontal orientation of the wall casing in walls and the insertion of a stabilisation beam

Installation and electrical connection of ventilation unit

- The current regulations according to VDE 0100 part 701 and the relevant installation requirements must be observed.
- A disconnecting device with at least 3 mm contact opening at each pole (e.g. circuit breaker) must be provided in the permanently installed wiring.
- Disconnect voltage supply before beginning work on the device, and secure against accidental re-activation!



Circuit diagram



Pluggable supply connections, remote control

2 lines are required for the electrical connection:

Voltage supply 230V~ e.g. NYM-O 2 x 1.5.

Ventilation unit control line – remote control (included as an accessory, length 3.0 m).

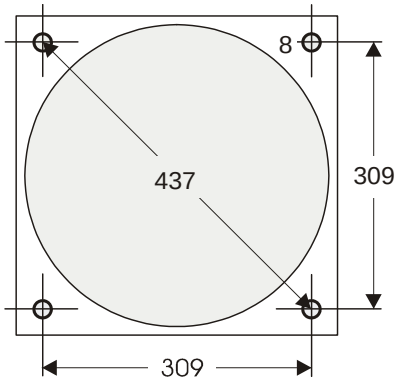
For flush mounting of the remote control (FDL 60 U set), the control line must be placed in a protection tube (M20)! The maximum permissible length of the control line is 10 m.

Procedure

1. Vacuum-clean the wall casing if necessary and push the ventilation unit into the wall casing - but not completely, so that access to the electrical connection space is possible.
2. Insert the plug for the control line into the plug connector.
3. Shorten the voltage supply lead in such a way as to allow the ventilation unit to be completely inserted without it being necessary to pull on the supply connection terminal.
4. Pull out the supply connection terminal to allow for easier connection, and connect to power supply.
5. Re-insert the supply connection terminal.

Final assembly

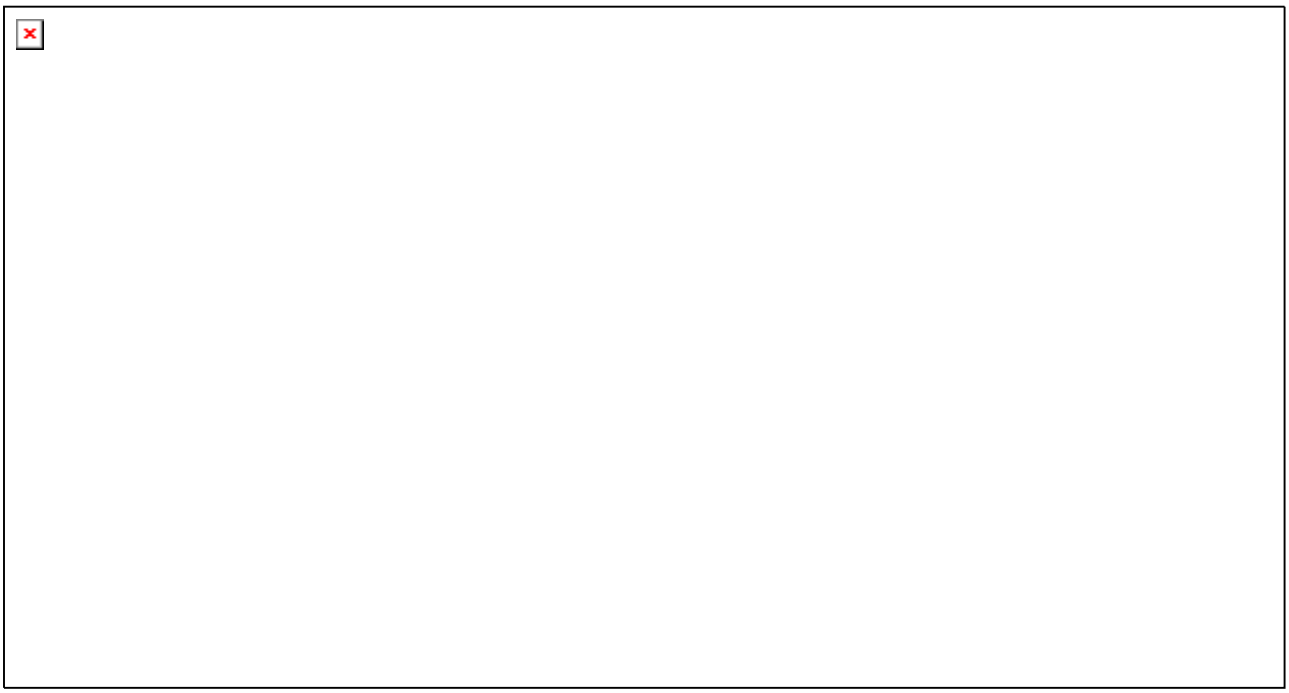
6. Fasten the stainless steel exterior cover to the exterior wall using the four screws provided.
   Use the drilling template included.
7. Insert the condensate hose through the opening in the stainless steel exterior cover and completely insert the ventilation unit. The hose must slope downwards in order to allow any condensate to drain off easily.
8. Check that the exterior cover flaps are functioning and accessible.
9. Screw the interior cover onto the ventilation unit's fastening tabs.



Wall opening dimensions for outer cover

Functional description

- The DL 60 WR is a local ventilation unit with heat recovery for wall installation, and provides controlled ventilation and de-aeration of closed rooms.
- The ventilation unit brings fresh filtered air into the rooms according to need, using either filter class G4 or pollen filter F7. It simultaneously removes used air, and thus creates a pleasant indoor climate without the need to open the windows.
- The internal heat exchanger removes the heat from the used air and transfers it to the fresh air supplied from outside.
- Up to 70% of the heat from the used exhaust air can be recovered.
- The constant ventilation of the room considerably reduces the danger of mildew formation from excessively high room humidity.
- Energy losses due to windows being left open and unattended are avoided.
- All mechanical and electrical components are accessible from the interior of the room, making it possible to use local ventilation units even in multi-storey residential buildings.
- The DC motors are extremely quiet and well suited for continuous operation.
- The control electronics of the unit take into account all prescribed functions in the relevant standards:
    - If one of the two DC motors fails, the other DC motor is also automatically switched off,
    - two well-sealed electrically-controlled stainless steel exterior vent flaps with fly screens prevent the inflow of cold air when the unit is switched off.



Operating principle of controlled domestic ventilation

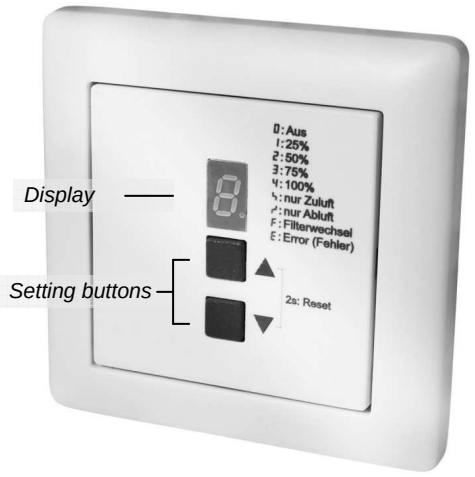
Operation

- Children or persons who are not capable of operating the unit safely must not operate the ventilation unit. Ensure that children do not play with the unit.

The functions can be accessed in order with the up and down button.

The following functions can be carried out with the remote control:

Display on the remote control	Denotation	Setting example
0	Ventilation unit off	Off
1	Fan level 1 on	During absence periods, night operation
2	Fan level 2 on	Normal operation
3	Fan level 3 on	Increased air exchange required
4	Fan level 4 on	Maximum air exchange required
↳	Fresh air operation on	Only fresh air, e.g. cooling operation at night
⤾	Exhaust air operation on*	Only exhaust air e.g. dehumidifying bathroom



FDL 60 remote control

*Exhaust air operation creates a vacuum if air cannot flow in at the required levels, which is why exhaust air operation cannot be carried out in rooms which have fireplaces that rely on indoor air (e.g. open fire places, heating stoves, tile stoves).

Faults

Fault display on the remote control

Display on remote control	Denotation	Required action	See section
F flashes	Set time for filter maintenance has been reached	Clean or change filters	“Maintenance” see page 9
E	Fault – ventilator defective!	Notify service!	“After-sales service”, page 10

Power failure

Both of the electric external vent flaps automatically open in cases of power failure or interruption. When voltage is re-applied, the ventilation unit automatically goes into fan level 1.

Maintenance

It is recommended that both filters be cleaned at least every 6 months - see also section “Maintenance display”. The filters should be replaced after approx. 1 year.

1. Remove both plastic screws from the wall covering and then remove wall covering.
2. Remove the filters and clean with a vacuum cleaner.

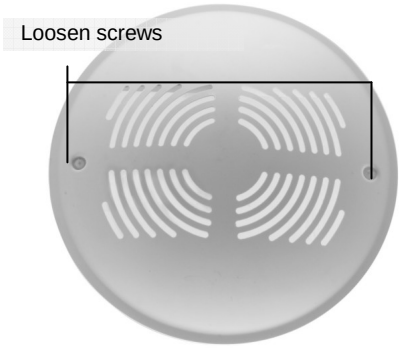
Filters must not be cleaned with water, as this will cancel out the electrostatic charge necessary for binding dirt.

- The use of other filter materials can significantly reduce the air exchange.
- The filter material used is precisely attuned to both ventilators and creates very little air resistance. For this reason, only original replacement filters must be used.
- Note: The unit must not be operated without filters!

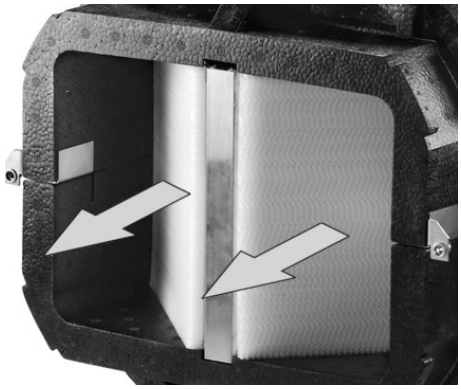
The DL 60 WR ventilation unit is factory-fitted with filters in the G4 filter class.

The units can also be later equipped with F7 pollen filters.

For replacement filters see “Accessories”.



Remove wall covering



Filter removal

Maintenance display

The remote control comes with a factory-set automatic filter maintenance display.

After 6 months, the filter maintenance display will flash “F”.

The message can be deleted by pressing both ▲▼ buttons for 2 seconds; the time counter is then re-started. The display will then return to the set operating mode again.

Setting the time period until the next maintenance message

The time period can be set in increments of one month, ranging from 2 to 6 months (the factory setting is 6 months).

Setting

1. Set the LED display to 0 (Press the ▼ button several times if necessary).
2. Access the filter menu by pressing the ▼ button for 5 seconds.
3. The time period (between 2 and 6 months) can be set using the ▲▼ buttons.

The set value is saved after 2 seconds, and the filter maintenance menu is automatically exited.

After-sales service

Glen Dimplex Deutschland GmbH After-Sales Service for Complete Systems

Am Goldenen Feld 18 Tel: +49 (0) 9221 709 562
95326 Kulmbach, Germany Fax: +49 (0) 9221 709 565
E-mail addresses: kundendienst.system@glendimplex.de kundendienst.system@dimplex.de
Internet: www.dimplex.de

To process your order, the production number (**E-no**.), the after-sales service index number (**KI**), and the production date (**FD)** for the unit are required. This information can be found on the type plate in the framed field.

CE - Declaration of conformity

EG - Konformitätserklärung
EC Declaration of Conformity
Déclaration de conformité CE

CE ©

Der Unterzeichnete
The undersigned
La société soussignée,

Glen Dimplex Deutschland GmbH
Geschäftsbereich Dimplex
Am Goldenen Feld 18
D - 95326 Kulmbach

bestätigt, dass das (die) nachfolgend bezeichnete(n) Gerät(e) aufgrund seiner (ihrer) Konzipierung und Bauart sowie in der von uns in Verkehr gebrachten Ausführung den einschlägigen grundlegenden Anforderungen der EG-Richtlinien entspricht (entsprechen).

Bei einer nicht mit uns abgestimmten Änderung des (der) Gerät(e)s verliert diese Erklärung ihre Gültigkeit.

hereby confirm that the design and construction of the product(s) listed below, in the version(s) placed on the market by us, conform to the relevant requirements of the applicable EC directives.

This declaration becomes invalidated if any modifications are made to the product(s) without our prior authorisation.

certifie que l'appareil / les appareils ci-après, par leur conception et leur mode de construction ainsi que par la définition technique avec laquelle il(s) sont mis en circulation par notre société, est / sont conforme(s) aux directives fondamentales CEE afférentes.

Ce certificat perd sa validité pour tout appareil modifié sans notre consentement.

Bezeichnung / Designation / Désignation

Dezentrales Lüftungsgerät
mit Wärmerückgewinnung
Local ventilation unit
with heat recovery
Appareil de ventilation décentralisé
avec récupération de la chaleur

EG - Richtlinien / EC Directives / Directives CEE

EG-Niederspannungsrichtlinie / EC Low Voltage Directive / Directive CEE relative à la basse tension (2006/95/EG)

EG-EMC-Richtlinie / EC EMC Directive / Directive CEE relative à la compatibilité électromagnétique (2004/108/EG)

Typ(e):	***Harmonisierte EN / Harmonized EB Standards / Normes EN harmonisées:***	
DL 60 WR	*DIN EN 60335-1 (VDE 0700-1):2007-02*	*EN 60335-1:2002+A11+A1+A12+ Corr.+A2:2006*
	DIN EN 60335-1/A13 (VDE 0700-1/A13):2009-05	*EN 60335-1/A13:2008*
	DIN EN 60335-2-80 (VDE 0700-40):2009-10	*EN 60335-2-80:2003+A1:2004+A2:2009*
	DIN EN 55014-1 (VDE 0875 T14-1):2007-06	*EN 55014-1:2006*
	DIN EN 55014-2 (VDE 0875 T14-2):2002-08	*EN 55014-2:1997+A1:2001*
	DIN EN 61000-3-2 (VDE 0838-2):2006-10	*EN 61000-3-2:2006*
	DIN EN 61000-3-3 (VDE 0838-3):2006-06	*EN 61000-3-3:1995+A1:2001+A2:2005*

Kulmbach, 04.11.2009

Clemens Dereschkewitz
Geschäftsführer/Managing Director

Andreas Tilch
Vertriebsleiter/Sales Manager

Note on disposal

Do not dispose of the unit with general household waste. The unit must be taken to a local waste disposal plant.

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